

Joshua Smith

Computer Systems Engineer

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OBJECTIVE

to lead research in the fields of **Artificial Intelligence**, **Machine Learning**, and **Natural Language Processing**

SKILLS

conceptual:

- ξ Machine Learning
- ξ Natural Language Processing Algorithms
- ξ Service Oriented Architectures
- ξ Graphic Design & Digital Animation, e.g. <http://studios.procifer.com>
- ξ Web Development & Integration

practical:

- ξ languages: Java, Swing, C, C++, C#, XML, Visual Basic, Perl, Prolog, Scheme
- ξ databases: MySQL, DB4O
- ξ web: HTML, JavaScript, PHP, AJAX, JSP, SOAP, WSDL, AXIS, Jakarta Tomcat, Apache, Microsoft IIS
- ξ hardware: VHDL Design/Synthesis, Motorola Assembly, MIPS
- ξ systems: Linux, Unix (Solaris, Mac), Win9x, WinNT, WinXP
- ξ software: Adobe Photoshop, Adobe Premiere, Alias Maya, Macromedia Dreamweaver, Illustrator, Fireworks

EXPERIENCE

- 2006 – pres. Microsoft – Windows Live Multimedia Search Redmond, WA
Software Development Engineer Intern <http://images.live.com>
- ξ Created entire Scratchpad module for use with multimedia search
 - ξ Prepared complete design document for scratchpad architecture
 - ξ Conducted usability studies to refine user experience and interface
 - ξ Utilized **DHTML**, **JavaScript**, **CSS**, and **AJAX** to implement scratchpad functionality
 - ξ Scratchpad will ship with September, 2006 release of **Windows Live**
- 2005 – pres. iSociate.com Tempe, AZ
Creator, Owner, Operator <http://www.isociate.com>
- ξ Created internet based social networking system in its entirety
 - ξ Developed site in **PHP5**, using **MySQL** for data storage, and **Apache** HTTP server
 - ξ Built messaging system, profile customization, and geographic visualization features
- 2004 - 2006 Lockheed Martin – Integrated Systems & Solutions Goodyear, AZ
College Student Technical Specialist (classified)
- ξ Architected and implemented Web Services based **SOAP/HTTP** messaging system to interface with Java **JINI** Service architecture
 - ξ Developed serialization module for transmitting Java Objects encoded in **XML** through **.NET** systems and **SOAP**
 - ξ Designed, Developed, and Integrated **C# .NET** interface to Java JINI Services
- 2003 - 2005 Lockheed Martin – Management & Data Systems King of Prussia, PA
College Student Technical Senior <http://www.aerotext.com>
- ξ Researched and developed Machine Learning solution for **AeroText** Natural Language Processing application
 - ξ Produced formal language specification for AeroText rule language
 - ξ Implemented Java/Swing user interface for AeroText Runtime Integration Toolkit

EDUCATION

- 2002 - 2006 Arizona State University – Ira A. Fulton School of Engineering / Barrett Honors College Tempe, AZ
Bachelor of Science in Engineering (B.S.E.), Computer Systems Engineering
- ξ Cumulative GPA: **3.53/4.0**
 - ξ Honors Thesis: **Extracting Semantic Trees from Unlabeled Corpora using Context Vector Alignment**
 - ξ Fall 2002/2003/2004/2005 **Dean's Honor List**

ACHIEVEMENTS

- ξ 2004 member of the **National Dean's List**
 - ξ **Full National Merit Scholarship** to the Barrett Honors College
 - ξ **Lockheed Martin Private Scholarship**
 - ξ **Renewed academic scholarships for 4 years**
 - ξ **5th Place** in Arizona State University 2006 Programming Competition
- ξ SAT **1530/1600**
 - o Math **760/800**
 - o Verbal **770/800**
 - ξ SAT II
 - o Physics **800/800**
 - o Math IIC **800/800**
 - o Writing **710/800**